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| LIST OF REFERENCES CITED BY APPLICANT<br>(Use several sheets if necessary) | ATTY. DOCKET NO.  | APPLICATION NO. |
|  | 10589-034-999     | 10/551,300      |
|  | APPLICANT         |                 |
|  | Trotta            |                 |
|  | FILING DATE       | ART UNIT        |
|  | November 29, 2006 | 1639            |

**U.S. PATENT DOCUMENTS**

| *EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE       | NAME         | PAGES, COLUMNS, LINES, WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR |
|-------------------|-----|-----------------|------------|--------------|---|
|                   | A20 | 2004/0219545    | 11/04/04   | Rando et al. |   |
|                   | A21 | 2005/0142545    | 06/30/05   | Conn et al.  |   |
|                   | A22 | 2005/0221368    | 10/06/05   | Rana et al.  |   |
|                   | A23 | 2006/0228730    | 10/12/2006 | Rando et al. |   |
|                   | A24 | 2006/0194234    | 8/31/2006  | Conn et al.  |   |
|                   | A25 | 6,875,736       | 04/05/05   | Rana et al.  |   |
|                   | A26 | 6,583,309       | 06/24/03   | Rana et al.  |   |
|                   | A27 | 6,503,713       | 01/07/03   | Rana et al.  |   |

**FOREIGN PATENT DOCUMENTS**

|  |     | FOREIGN PATENT DOCUMENT COUNTRY CODE, NUMBER, KIND CODE (IF KNOWN) | DATE       | NAME                           | PAGES, COLUMNS, LINES, WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR | T |
|--|-----|--|------------|--------------------------------|---|---|
|  | B19 | EP 0177827 B1  | 11/18/1993 | Hoechst Aktiengesell-Schaft    |   |   |
|  | B20 | CN 1328156 (English Abstract included)                             | 12/26/01   | Wuhan Inst Of Virology Chinese |   |   |
|  | B21 | CA 1,340,280   | 12/22/1998 | Hoechst Aktiengesell-Schaft    |   |   |
|  | B22 | WO 01/53455  | 07/26/01   | Hyseq, Inc.                    |   |   |

**NON PATENT LITERATURE DOCUMENTS**

|                   |  |   |
|-------------------|--|---|
| Examiner Initials | (Include name of the author (in CAPITAL LETTERS), Title, Date, Pertinent Pages, Etc.)  | T |
| C78               | BRANDEN et al., 1991, Chapter 16: Prediction, Engineering, and Design of Protein Structures" in Introduction to Protein Structure, Garland Publishing, Inc., p.247 |   |
| C79               | BROWN, 1993, Hybridization Analysis of DNA Blots, in Current Protocols in Molecular Biology, p. 2.10.1-2.10.11   |   |
| C80               | GENBANK Accesion No: AAH19582, "tRNA splicing" dated January 3, 2002   |   |
| C81               | GENBANK Accession No.: BC019582, "Homo sapiens tRNA" dated January 3, 2002   |   |
| C82               | GENBANK: Accession No: NP_079541; "tRNA splicing endonuclease 2 homolog [Homo sapiens]," dated March 2, 2006   |   |
| C83               | GENBANK: Accession No: NT_005927.12; "Homo sapiens chromosome 3 reference genomic contig," dated August 1, 2002"   |   |

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|---|-----------------|
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|-------------------|------|--|---|
|                   | C84  | GENBANK: Accession No: NT_011225.9; "Homo sapiens chromosome 19 reference genomic contig," dated August 1, 2002  |   |
|                   | C85  | GENBANK: Accession No: XP_085899; "similar to LENG5 protein [Homo sapiens]," dated August 1, 2002  |   |
|                   | C86  | GENBANK Accession No.: CAA19575, "tRNA-splicing endonuclease subunit Sen34 [Schizosaccharomyces pombe]," dated June 30, 2009   |   |
|                   | C87  | GENBANK Accession No.: CAA21061, "tRNA-splicing endonuclease subunit Sen54 (predicted) [Schizosaccharomyces pombe]," dated June 30, 2009   |   |
|                   | C88  | GENBANK Accession No.: CAD27500, "tRNA-splicing endonuclease subunit Sen2 [Schizosaccharomyces pombe]," dated June 30, 2009  |   |
|                   | C89  | GENBANK Accession No.: CAE46913; "tRNA-splicing endonuclease subunit Sen15 [Schizosaccharomyces pombe]," dated June 30, 2009   |   |
|                   | C90  | HERRENKNECHT, 1988, "Pre t-RNA splicing in a nuclear extract from human leukemia cells: separation of endonuclease and ligase activities." Nuc. Acids Res. 16:7713-7714  |   |
|                   | C91  | LUCAS et al., 2000, "Yeast Sequencing Report: Sequence analysis of two cosmids from the right arm of the <i>Schizosaccharomyces pombe</i> chromosome II." Yeast 16:299-306   |   |
|                   | C92  | MARRAS, 2002, "Efficiencies of Fluorescence Resonance Energy transfer and contact-mediated quenching in oligonucleotide probes." Nucleic Acids Res. 30:1-8   |   |
|                   | C93  | PAUSHKIN et al., 2004, "Identification of a human endonuclease complex reveals a link between tRNA splicing and pre-mRNA 3' End Formation." Cell, 117:311-321  |   |
|                   | C94  | SEFFERNICK et al., 2001, "Melamine deaminase and atrazine chlorohydrolase: 98 percent identical but functionally different." J Bacteriol. 183(8):2405-2410   |   |
|                   | C95  | SOOD et al., 2001, "Cloning and characterization of 13 novel transcripts and the human RGS8 gene from the 1q25 region encompassing the hereditary prostate cancer (HPC1) locus." Genomics 73:211-222   |   |
|                   | C96  | SPALTMANN et al., 1999, "Computer-aided target selection – prioritizing targets for antifungal drug discovery." DDT, 4(1):17-26  |   |
|                   | C97  | STRYER, 1999, Chapter 5: Flow of Genetic Information, p. 96-97; Chapter 33: RNA Synthesis and Splicing, p. 860-864, Chapter 34: Protein Synthesis, p.875-880; <i>in Biochemistry</i> , 4 <sup>th</sup> edition, W.H. Freeman and Co., New York |   |
|                   | C98  | WITKOWSKI, 1999, "Conversion of β-ketoacyl Synthase to Malonyl Decarboxylase by Replacement of the Active-site Cysteine and Glutamine." Biochemistry, 38:11643-11650   |   |
|                   | C99  | YEAST Accession No: YLR105c; SEN2: <a href="http://www.yeastgenome.org/">http://www.yeastgenome.org/</a> , dated March 8, 2006   |   |
|                   | C100 | YEAST Accession No: YAR008w; SEN34 <a href="http://www.yeastgenome.org/">http://www.yeastgenome.org/</a> , dated March 8, 2006   |   |
|                   | C101 | YEAST Accession No: YMR059w; SEN 15 <a href="http://www.yeastgenome.org/">http://www.yeastgenome.org/</a> dated March 8, 2006  |   |
|                   | C102 | YEAST Accession No: YPL083c; SEN54 " <a href="http://www.yeastgenome.org/">http://www.yeastgenome.org/</a> ," dated March 8, 2006  |   |
|                   | C103 | RESPONSE TO OFFICE COMMUNICATION REGARDING SEQUENCE DISCLOSURE AND PRELIMINARY AMENDMENT dated February 28, 2006, for U.S. Application No.: 10/884,695, filed July 2, 2004   |   |
|                   | C104 | REQUIREMENT Restriction/Election dated June 13, 2006 for U.S. Application No.: 10/884,695, filed July 2, 2004  |   |
|                   | C105 | RESPONSE to Requirement for Restriction/Election and Preliminary Amendment dated October 13, 2006 for U.S. Application No.: 10/884,695, filed July 2, 2004   |   |
|                   | C106 | NON-FINAL Rejection, dated December 21, 2006, for U.S. Application No.: 10/884,695, filed July 2, 2004   |   |

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### NON PATENT LITERATURE DOCUMENTS

| Examiner Initials | (Include name of the author (in CAPITAL LETTERS), Title, Date, Pertinent Pages, Etc.)   | T |
|-------------------|---|---|
| C107              | AMENDMENT after non-final rejection, dated April 17, 2007, for U.S. Application No.: 10/884,695, filed July 2, 2004                 |   |
| C108              | NON-FINAL Rejection, dated July 13, 2007, for U.S. Application No.: 10/884,695, filed July 2, 2004                                  |   |
| C109              | AMENDMENT after non-final rejection, dated November 13, 2007, for U.S. Application No.: 10/884,695, filed July 2, 2004              |   |
| C110              | NON-FINAL Rejection, dated February 5, 2008, for U.S. Application No.: 10/884,695, filed July 2, 2004                               |   |
| C111              | AMENDMENT after non-final rejection, dated August 5, 2008, for U.S. Application No.: 10/884,695, filed July 2, 2004                 |   |
| C112              | DETAILED ACTION, dated December 1, 2008, for U.S. Application No.: 10/884,695, filed July 2, 2004                                   |   |
| C113              | NOTICE of Abandonment, dated June 4, 2009, for U.S. Application No.: 10/884,695, filed July 2, 2004                                 |   |
| C114              | PRELIMINARY Amendment, dated September 27, 2005, for U.S. Application No: 10/551,304, filed May 18, 2006                            |   |
| C115              | REQUIREMENT for Restriction/Election, dated January 16, 2008, for U.S. Application No: 10/551,304, filed May 18, 2006               |   |
| C116              | RESPONSE to Requirement for Restriction/Election, dated July 15, 2008, for U.S. Application No: 10/551,304, filed May 18, 2006      |   |
| C117              | REQUIREMENT for Restriction/Election, dated November 25, 2008, for U.S. Application No: 10/551,304, filed May 18, 2006              |   |
| C118              | RESPONSE to Requirement for Restriction/Election, dated December 22, 2008, for U.S. Application No: 10/551,304, filed May 18, 2006  |   |
| C119              | NON-FINAL Rejection, dated March 17, 2009, for U.S. Application No: 10/551,304, filed May 18, 2006                                  |   |
| C120              | PRELIMINARY Amendment dated September 27, 2005, for PCT/US2004/009572-U.S. Application No.: 10/551,301 filed July 12, 2006          |   |
| C121              | PRELIMINARY Amendment dated August 4, 2008, for U.S. Application No.: 10/551,301 filed July 12, 2006                                |   |
| C122              | REQUIREMENT for Restriction/Election, dated January 16, 2009, for U.S. Application No.: 10/551,301 filed July 12, 2006              |   |
| C123              | RESPONSE to requirement for Restriction/Election, dated February 17, 2009, for U.S. Application No.: 10/551,301 filed July 12, 2006 |   |
| C124              | NON-FINAL Rejection, dated May 12, 2009, for U.S. Application No.: 10/551,301 filed July 12, 2006                                   |   |
| C125              | INTERNATIONAL Search Report, dated June 22, 2005 of PCT/US2004/009572, filed March 26, 2004   |   |
| C126              | WRITTEN Opinion, dated June 22, 2005 of PCT/US2004/009572, filed March 26, 2004   |   |
| C127              | INTERNATIONAL Preliminary Report on Patentability, dated November 11, 2005 of PCT/US2004/009572, filed March 26, 2004               |   |
| C128              | EUROPEAN Search Report, dated July 23, 2007 of EP 1 613 158 published January 11, 2006  |   |
| C129              | INTERNATIONAL Search Report, dated January 27, 2005 of PCT/US2004/009590, filed March 26, 2004                                      |   |
| C130              | WRITTEN Opinion, dated January 27, 2005 of PCT/US2004/009590, filed March 26, 2004  |   |
| C131              | INTERNATIONAL Preliminary Report on Patentability, dated June 16, 2005 of PCT/US2004/009590, filed March 26, 2004                   |   |

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|                   | C132 | EUROPEAN Search Report, dated July 23, 2007 of EP 1 613 160 published January 11, 2006  |   |
|                   | C133 | INTERNATIONAL Search Report, dated April 24, 2007 of PCT/US2004/021334, filed July 2, 2004  |   |
|                   | C134 | WRITTEN Opinion, dated April 24, 2007 of PCT/US2004/021334, filed July 2, 2004  |   |
|                   | C135 | INTERNATIONAL Preliminary Report on Patentability, December 12, 2007 of PCT/US2004/021334, filed July 2, 2004                                       |   |
|                   | C136 | EUROPEAN Search Report, dated May 8, 2009 of EP 1 649 002 published April 26, 2006  |   |
|                   | C137 | INTERNATIONAL Search Report, dated June 9, 2005 of PCT/US2004/009574, filed March 26, 2004  |   |
|                   | C138 | WRITTEN Opinion, dated June 9, 2005 of PCT/US2004/009574, filed March 26, 2004  |   |
|                   | C139 | INTERNATIONAL Preliminary Report on Patentability, dated November 11, 2005 of PCT/US2004/009574, filed March 26, 2004                               |   |
|                   | C140 | EUROPEAN Search Report, dated July 3, 2007 of EP 1 613 159 published January 11, 2006   |   |
|                   | C141 | EUROPEAN communication regarding possible amendment of claims/payment of fees, dated November 14, 2005, of EP 1 613 158, published January 11, 2006 |   |
|                   | C142 | REPLY to European communication before examination dated December 21, 2005, of EP 1 613 158, published January 11, 2006                             |   |
|                   | C143 | EUROPEAN communication regarding transmission of search report, dated July 23, 2007, of EP 1 613 158, published January 11, 2006                    |   |
|                   | C144 | EUROPEAN communication from the examining division, dated November 16, 2007, of EP 1 613 158, published January 11, 2006                            |   |
|                   | C145 | REPLY to European communication from the examining division, dated May 15, 2008, of EP 1 613 158, published January 11, 2006                        |   |
|                   | C146 | EUROPEAN communication from the examining division, dated July 15, 2008, of EP 1 613 158, published January 11, 2006                                |   |
|                   | C147 | REPLY to European communication from the examining division, dated November 10, 2008, of EP 1 613 158, published January 11, 2006                   |   |
|                   | C148 | EUROPEAN communication from the examining division, dated November 26, 2008, of EP 1 613 158, published January 11, 2006                            |   |
|                   | C149 | REPLY to European communication from the examining division, dated January 26, 2009, of EP 1 613 158, published January 11, 2006                    |   |
|                   | C150 | EUROPEAN communication regarding possible amendment of claims/payment of fees, dated Nov. 14, 2005, of EP 1 613 159, published January 11, 2006     |   |
|                   | C151 | EUROPEAN communication regarding transmission of search report, dated July 3, 2007, of EP 1 613 159, published January 11, 2006                     |   |
|                   | C152 | EUROPEAN communication from the examining division, dated October 10, 2007, of EP 1 613 159, published January 11, 2006                             |   |
|                   | C153 | REPLY to European communication from the examining division, dated April 21, 2008, of EP 1 613 159, published January 11, 2006                      |   |
|                   | C154 | EUROPEAN communication from the examining division, dated August 5, 2008, of EP 1 613 159, published January 11, 2006                               |   |
|                   | C155 | REPLY to European communication from the examining division, dated August 18, 2008, of EP 1 613 159, published January 11, 2006                     |   |

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| C156              | EUROPEAN communication from the examining division, dated December 17, 2008, of EP 1 613 159, published January 11, 2006                            |   |
| C157              | REPLY to European communication from the examining division, dated June 26, 2009, of EP 1 613 159, published January 11, 2006                       |   |
| C158              | EUROPEAN communication regarding possible amendment of claims/payment of fees, dated November 14, 2005, of EP 1 613 160, published January 11, 2006 |   |
| C159              | EUROPEAN communication regarding transmission of search report, dated July 23, 2007, of EP 1 613 160, published January 11, 2006                    |   |
| C160              | EUROPEAN communication from the examining division, dated April 23, 2008, of EP 1 613 160, published January 11, 2006                               |   |
| C161              | REPLY to European communication from the examining division, dated October 31, 2008, EP 1 613 160, published January 11, 2006                       |   |
| C162              | EUROPEAN communication from the examining division, dated December 17, 2008, of EP 1 613 160, published January 11, 2006                            |   |
| C163              | REPLY to European communication from the examining division, dated June 26, 2009, of EP 1 613 160, published January 11, 2006                       |   |
| C164              | GENBANK Accession No.: M32336, "S.cerevisiae tRNA splicing endonuclease beta-subunit (SEN2) gene, complete cds," dated August 6, 1997               |   |

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